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PAGE: 1

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,217

DATE: 09/22/1999 TIME: 14:39:53

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This Raw Listing contains the General Information Section and up to the first 5 pages.

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1 2		SEQUENCE LISTING ENTERED
3 4	(1) G	eneral Information:
5 6 7 8	(i)	APPLICANT: Benz, Christopher C. Scott, Gary K. Chang, Chuan-Hsiung
9 10 11	(ii)	TITLE OF INVENTION: A New ETS-Related Gene Overexpressed in Human Breast and Epithelial Cancers
12 13	(iii)	NUMBER OF SEQUENCES: 38
14 15 16 17 18 19 20	(iv)	CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: Townsend and Townsend and Crew LLP  (B) STREET: Two Embarcadero Center, Eighth Floor  (C) CITY: San Francisco  (D) STATE: California  (E) COUNTRY: USA  (F) ZIP: 94111-3834
22 23 24 25 26 27	• • •	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28 29 30 31 32	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/978,217  (B) FILING DATE: 25-NOV-1997  (C) CLASSIFICATION:
33 34 35 36	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 60/031,504  (B) FILING DATE: 27-NOV-1996
37 38 39 40 41	(viii)	ATTORNEY/AGENT INFORMATION:  (A) NAME: Hunter, Tom  (B) REGISTRATION NUMBER: 38,498  (C) REFERENCE/DOCKET NUMBER: 02307E-071110US
42 43 44 45 46	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (415) 576-0200 (B) TELEFAX: (415) 576-0300

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,217

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55		(ii	) MO	LECU	LE T	YPE:	CDN	A									
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59			()	A) N	AME/	KEY:	CDS										
60						ION:		1116									
61			(1	D) 0'	THER	INF	ORMA'	TION	: /p:	rodu	ct=	"hum	an E	SX"			
62	/note= "epithelial-restricted with serine box (ESX)"																
63	3																
64																	
65		(xi	) SE	OUEN	CE D	ESCR:	IPTI	ON:	SEO :	ID N	0:1:						
66		,		•													
67	ATG	GCT	GCA	ACC	TGT	GAG	ATT	AGC	AAC	ATT	TTT	AGC	AAC	TAC	TTC	AGT	48
68						Glu											
69	1	1114			5	014		502		10				- / -	15	501	
70	_																
71	CCC	איזיכי	ጥልሮ	AGC	TCG	GAG	GAC	TCC	ACC	CTC	GCC	тст	CTT	CCC	ССТ	ССТ	96
72						Glu											50
73	AIG	Mec	TYL	20	BEL	GIU	Asp	261	25	пец	AIG	Ser	Val	30	FIO	AIA	
73 74				20					25					30			
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75						GAT											144
76	Ата	Thr		GIY	Ата	Asp	Asp		vai	Leu	Thr	ьeu		ASII	Pro	GIN	
77			35					40					45				
78					~~~		~-~							~	~-~		
79						ACA											192
80	Met		Leu	GIu	GTÅ	Thr		Lys	Ala	Ser	Trp		GIY	GIu	GIn	Pro	
81		50					55					60					
82																	
83						ACG											240
84		Phe	$\mathtt{Trp}$	Ser	Lys	Thr	Gln	Val	Leu	Asp	-	Ile	Ser	Tyr	Gln		
85	65					70					75					80	
86																	
87						GAC											288
88	Glu	Lys	Asn	Lys	Tyr	Asp	Ala	Ser	Ala	Ile	Asp	Phe	Ser	Arg	Cys	Asp	
89					85					90					95		
90																	
91						CTC											336
92	Met	Asp	Gly	Ala	Thr	Leu	Cys	Asn	Cys	Ala	Leu	Glu	Glu	Leu	Arg	Leu	
93				100					105					110			•
94																	
95	GTC	TTT	GGG	CCT	CTG	GGG	GAC	CAA	CTC	CAT	GCC	CAG	CTG	CGA	GAC	CTC	384
96	Val	Phe	Gly	Pro	Leu	Gly	Asp	Gln	Leu	His	Ala	Gln	Leu	Arg	Asp	Leu	
97			115			•	-	120					125	-	~		
98																	
99	ACT	TCC	AGC	TCT	TCT	GAT	GAG	CTC	AGT	TGG	ATC	ATT	GAG	CTG	CTG	GAG	432

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100 101 102	Thr	Ser 130	Ser	Ser	Ser	Asp	Glu 135	Leu	Ser	Trp	Ile	Ile 140	Glu				
102	אממ	СУТ	ממר	ΔТС	פככ	שישיכי	CAG	GAG	GCC	СТД	GAC	ככא	GGG	כככ	тфф	GAC	480
104							Gln										100
105	145		0-7			150	<b></b>				155		0-1			160	
106																	
107	CAG	GGC	AGC	CCC	TTT	GCC	CAG	GAG	CTG	CTG	GAC	GAC	GGT	CAG	CAA	GCC	528
108	Gln	Gly	Ser	Pro	Phe	Ala	Gln	Glu	Leu	Leu	Asp	Asp	Gly	Gln	Gln	Ala	
109		-			165					170	_	_	_		175		
110																	
111							AGC										576
112	Ser	Pro	Tyr	His	Pro	Gly	Ser	Cys	Gly	Ala	Gly	Ala	Pro	Ser	Pro	Gly	
113				180					185					190			
114																	
115							GCA										624
116	Ser	Ser		Val	Ser	Thr	Ala	_	Thr	Gly	Ala	Ser		Ser	Ser	His	
117			195					200					205				
118	maa	<b></b>	~~~	maa	~~m	007	3 Cm	a	ama	~~~	ama	C 3 FF	aaa	3 CIT	<b>~3 m</b>	aaa	670
119							AGT										672
120	ser		Asp	ser	GIY	GIA	Ser	Asp	Val	Asp	ьeu	_	PIO	THE	Asp	GIĀ	
121 122		210					215					220					
123	አልር	CTC	ጥጥር	ccc	AGC	Сат	GGT	بلسلين	CCT	GAC	TCC	λλC	מממ	ccc	СУТ	ccc	720
124							Gly										720
125	225	LCu	1110	110	501	230		1110	**** 9	p	235	<i>1</i> ,5	Lys	O <sub>T</sub>	wob	240	
126																	
127	AAG	CAC	GGG	AAG	CGG	AAA	CGA	GGC	CGG	CCC	CGA	AAG	CTG	AGC	AAA	GAG	768
128							Arg										
129	•		-	•	245	•	_	•	•	250	_	•			255		
130																	
131	TAC	TGG	GAC	TGT	CTC	GAG	GGC	AAG	AAG	AGC	AAG	CAC	GCG	CCC	AGA	GGC	816
132	Tyr	Trp	Asp	Cys	Leu	Glu	Gly	Lys	Lys	Ser	Lys	His	Ala	Pro	Arg	Gly	
133				260					265					270			
134																	
135							ATC										864
136	Thr	His		Trp	Glu	Phe	Ile	-	Asp	Ile	Leu	Ile		Pro	Glu	Leu	
137			275					280					285				
138		<b>G3.G</b>	~~~	ama.	3.00		maa	~~~		~~~	C 3 III	~~~		ama.			010
139							TGG										912
140	ASI		GIĀ	ьeu	Met	гуѕ	Trp	GIU	ASII	Arg	HIS		GIA	vaı	Pne	гуу	
141 142		290					295					300					
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144							Val										900
145	305	пси	Arg	DCI	GIU	310	Val	ALG	GIII	LCu	315	Cly	OIII	כעם	шуз	320	
146	303					310					313					320	
147	AAC	AGC	AAC	ATG	ACC	TAC	GAG	AAG	CTG	AGC	CGG	GCC	ATG	AGG	TAC	TAC	1008
148							Glu										
149					325	•	-	•		330		•			335	-	
150																	
151	TAC	AAA	CGG	GAG	ATC	CTG	GAA	CGG	GTG	GAT	GGC	CGG	CGA	CTC	GTC	TAC	1056
152	Tyr	Lys	Arg	Glu	Ile	Leu	Glu	Arg	Val	Asp	Gly	Arg	Arg	Leu	Val	Tyr	

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														IN	<b>IPUT</b>	SET: S	33430.raw
153				340					345					350			
154																	
155	AAG	TTT	GGC	AAA	AAC	TCA	AGC	GGC	TGG	AAG	GAG	GAA	GAG	GTT	CTC	CAG	1104
156	Lys	Phe	Gly	Lys	Asn	Ser	Ser	Gly	Trp	Lys	Glu	Glu	Glu	Val	Leu	Gln	
157			355					360					365				
158																	
159	AGT	CGG	AAC	TGA													1116
160	Ser	Arg	Asn														
161		370															
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163																	
164	(2)	TNF	ORMA	TION	FOR	SEQ	ID I	10:2	:								
165	ν-/																
166			(i) 9	SEOU	ENCE	CHAI	RACTI	ERTS	TTCS	•							
167	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 371 amino acids</li></ul>																
168	(B) TYPE: amino acid																
169																	
170	(D) TOPOLOGY: linear																
171		,	,	MOT EV	ים זווי	ומעים	7. n	roto	in								
	(ii) MOLECULE TYPE: protein																
172	(vi) SECTIFACE DESCRIPTION: SEC ID NO.2.																
173	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:																
174		- 1 -		m1	<b>a</b>	~1	<b>-1</b> -	<b>a</b>		<b>-</b> 1-	Dla a	<b>a</b>	3	<b></b>	Dh a	0	
175		Ala	Ата	Thr	_	GIU	тте	ser	Asn		Pne	Ser	ASI	TYL		ser	
176	1				5					. 10					15		
177	_ •		_	_	_		_	_	_,	_		_	1	_			
178	Ala	Met	Tyr		ser	GLu	Asp	ser		Leu	Ala	Ser	vaı		Pro	Ala	
179				20					25					30			
180	_		_	_	_							_	_	_	_		
181	Ala	Thr		Gly	Ala	Asp	Asp		Val	Leu	Thr	Leu		Asn	Pro	GIn	
182			35					40					45				
183														_	_		
184	Met	Ser	Leu	Glu	Gly	Thr	Glu	Lys	Ala	Ser	$\mathtt{Trp}$	Leu	Gly	Glu	Gln	Pro	
185		50					55					60					
186																	
187	Gln	Phe	Trp	Ser	Lys	Thr	Gln	Val	Leu	Asp	$\mathtt{Trp}$	Ile	Ser	$\mathtt{Tyr}$	Gln	Val	
188	65					70					75					80	
189																	
190	Glu	Lys	Asn	Lys	Tyr	Asp	Ala	Ser	Ala	Ile	Asp	Phe	Ser	Arg	Cys	Asp	
191		_			85					90					95		
192																	
193	Met	Asp	Gly	Ala	Thr	Leu	Cys	Asn	Cys	Ala	Leu	Glu	Glu	Leu	Arg	Leu	
194		_	_	100			_		105					110			
195																	
196	Val	Phe	Glv	Pro	Leu	Gly	Asp	Gln	Leu	His	Ala	Gln	Leu	Arq	Asp	Leu	
197			115			- 4		120	_				125	_	-		
198																	
199	Thr	Ser	Ser	Ser	Ser	Asp	Glu	Leu	Ser	Tro	Ile	Ile	Glu	Leu	Leu	Glu	
200		130					135			- T-		140				-	
201																	
202	Lvs	Asp	Glv	Met	Ala	Phe	Gln	Glu	Ala	Leu	Asp	Pro	Glv	Pro	Phe	Asp	
203	145		1			150					155		2			160	
204	-15																
205	Gln	GIV.	Ser	Pro	Phe	Δla	Gln	Glu	Len	Len	Asp	Asp	Glv	Gln	Gln	Δla	
200	GIII	GIY	UCT.	110	T 116	ALA	G 1.11	تبير	Leu		p	Top	O L y		J.11	-11u	

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207	_	_	_	•	_		_	_					_		_	
208	Ser	Pro	Tyr		Pro	GTA	Ser	Cys	_	Ala	GIA.	Ala	Pro		Pro	GГĀ
209				180					185					190		
210		0	3	**- 7	C	(T)	n 1 -	~1	ml	<b>a</b> 1	31 -	<b>a</b>	3	<b>a</b>	<b>a</b>	***
211	ser	ser	_	vaı	ser	Thr	Ата	Gly	Thr	GIY	Ala	ser	_	ser	ser	HIS
212			195					200					205			
213	0	0	7	0	a1	a1	C 0 m	7	7707	7 ~~	T 011	7 ~~	Dwo	mb so	7	a1
214	ser		Asp	ser	GIY	GIA	215	Asp	vai	Asp	Leu	220	Pro	Thr	Asp	GIY
215 216		210					215					220				
216	T	T 011	Dha	Dwo	Cox	» «»	~1	Phe	7 250	7 ~~	0	T	T ***	~1··	7	Dwo
217	225	ьеu	FIIE	PIO	ser	230	GIY	FIIE	ALG	ASP	235	цув	цуз	GIY	ASP	240
219	225					230					233					240
220	Lare	Uic	Clv	Lare	λνα	Taze	λrα	Gly	λκα	Dro	λrα	Larg	T.011	Car	Larg	Glu
221	цуэ	птэ	Gry	пуз	245	цуз	ALY	Gry	ALG	250	Arg	цуз	Бец	DCI	255	GIU
222					443					250					2,,,	
223	Tur	Trn	Δsn	Cvs	T.e.11	Glu	Glv	Lys	Lvs	Ser	Tays	His	Δla	Pro	Δra	Glv
224	- y -	115	мор	260	LCu	Olu	O <sub>T</sub> y	ביים	265	DCI	y.	*****	mu	270	9	Cly
225				200					200					2,0		
226	Thr	His	Leu	Trp	Glu	Phe	Tle	Arg	Asp	Tle	Leu	Tle	His	Pro	Glu	Len
227			275					280					285			202
228		•														
229	Asn	Glu	Gly	Leu	Met	Lys	Trp	Glu	Asn	Arq	His	Glu	Gly	Val	Phe	Lvs
230		290	2				295					300				
231																
232	Phe	Leu	Arg	Ser	Glu	Ala	Val	Ala	Gln	Leu	Trp	Gly	Gln	Lys	Lys	Lys
233	305		_			310					315	_		-	-	320
234																
235	Asn	Ser	Asn	Met	Thr	Tyr	Glu	Lys	Leu	Ser	Arg	Ala	Met	Arg	Tyr	Tyr
236					325					330					335	
237																
238	Tyr	Lys	Arg		Ile	Leu	Glu	Arg	Val	Asp	Gly	Arg	Arg		Val	Tyr
239				340					345					350		
240																
241	Lys	Phe		Lys	Asn	Ser	Ser	Gly	Trp	Lys	Glu	Glu		Val	Leu	Gln
242			355					360					365			
243	•															
244	Ser	Arg	Asn													
245	•	370														
246																
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